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GCACGTCGCATGGACCACCGTGAACGCCCACCAAATAT

TGCCCAAGGTCTTACATAAGAGGACTCTTGGACTCTCAGC *********** ****

HNF4

AATGTCAACGACCTTGAGGCATACTTCAAA GACTGT

HNF3-1

TAAAGGTCTTTGTACTAGGAGGCTGTAGG CATAAATTGGT

CTGCGCACCAGCATGCAACTTTTTCACCTCTGCCTAA Pre-genomic

TCATCTTTG

>95% among 75 HBV strains * nucleotide conserved at

Fig.



2761 ATGG<u>AAGGCGGGTA</u>TAT<u>TATATAA</u>GAGAGAAACAACACATAGCGCCTC**A**TTTTGTGGGTC
Sp1 TBP RNA Start

2821 ACCATATTCTTGGGAACAAGATCTACAGC<u>ATGGGGC</u>
PreS1 protein start

100

Fig. 1B

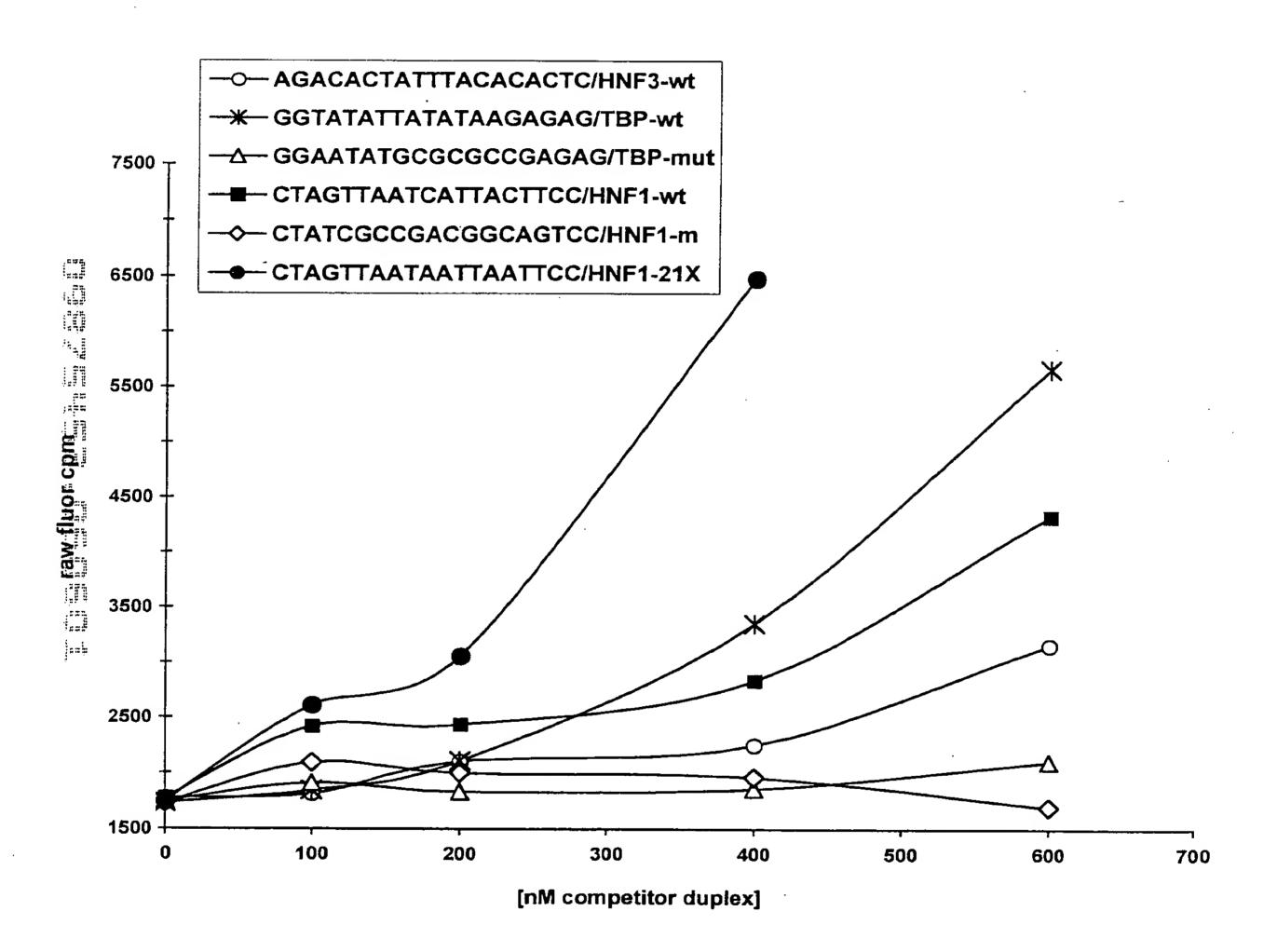


Fig. 2

1081	CTA	AGC	AGG	CTT	TCA	CTT	TCT	CGC	CAA	CTT	ACA	AGG	CCT	TTC	TGT	GTA	AAC	AAT
								NF	1(110	00-13	119)							
												_		2c. (1119	-113	4)	

- 1135 ACC TGA ACC TTT ACC CCG TTG CCC GGC AAC GGC CAG GTC TGT GCC AAG TGT TTG

 EF-C(1148-1168)
- 1189 CTG ACG CAA CCC CCA CTG GCT GGG GCT TGG TCA TGG GCC ATC AGC GCA TGC GTG

 E(1180-1202) NF1(1209-1236) X-PBP(1229-1245)
- 1243 GAA CCT TTT CGG CTC CTC TGC CGA TCC ATA CTG CGG AAC TCC TAG CCG CTT GTT
- 1297 TTG CTC GCA GCA GGT CTG GAG CAA ACA TTA TCG GGA CTG ATA ACT CTG TTG TCC
- 1351 TAT CCC GCA AAT ATA CAT CGT TTC CAT GGC TGC TAG 1386

Fig. 3

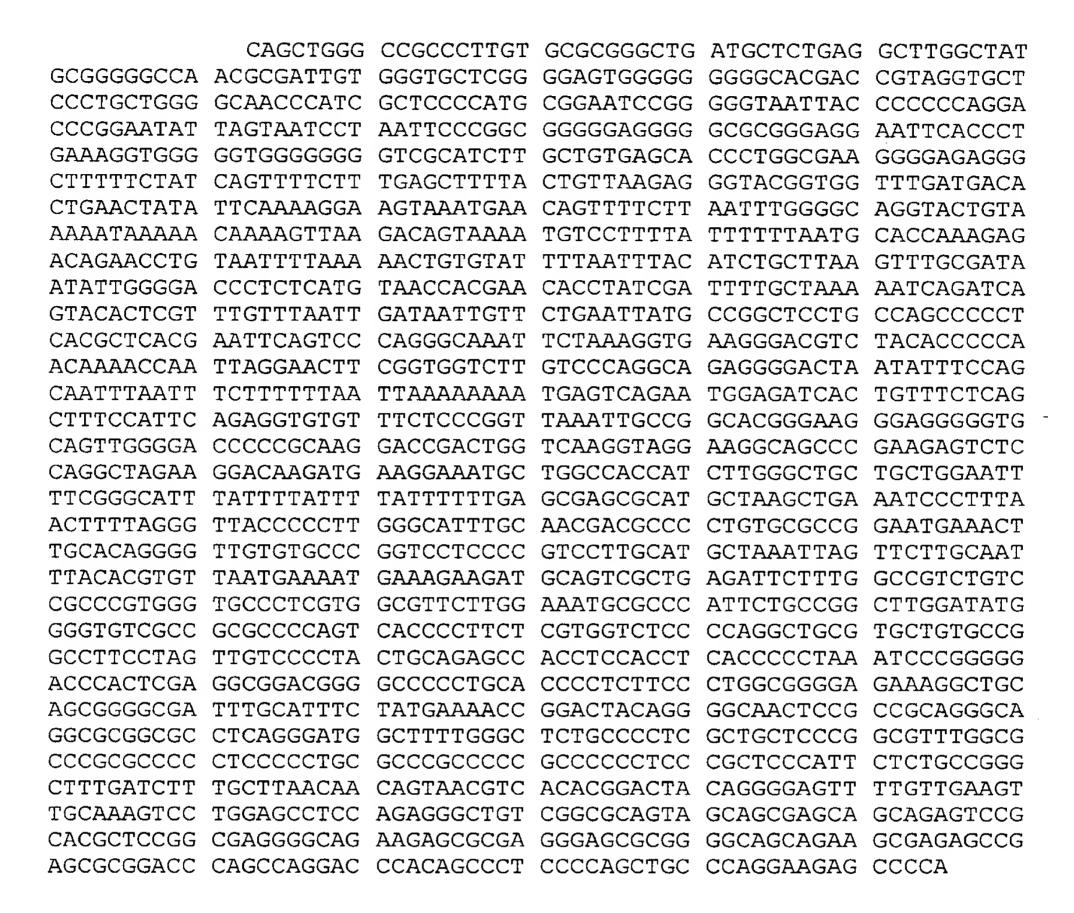


Fig. 4

10 GAATTCACTG CTTAAGTGAC		30 TCAGGAAGAT AGTCCTTCTA	GACAACAGGA		60 ACAGAGTAAT TGTCTCATTA	
80 CTAAAAATAA GATTTTTATT	90 ACTCTAAGAA TGAGATTCTT	100 GTATTCAGCC CATAAGTCGG			130 AATGGTGGGA TTACCACCCT	
150 GGGAATATTG CCCTTATAAC	160 TGGGCAGAAG ACCCGTCTTC				200 TTGAGGCAAG AACTCCGTTC	
220 AACAACTGTT TTGTTGACAA	230 TTTTCAAGTT AAAAGTTCAA			260 GACCTTCAGC CTGGAAGTCG		· - -
290 GCTGAGCTGA CGACTCGACT	300 TTGCAGGGCC AACGTCCCGG		320 TGGCACTCTC ACCGTGAGAG		340 AAACTGACAG TTTGACTGTC	
360 CTTGAGCCCA GAACTCGGGT	370 TTTTGGCTCT AAAACCGAGA	380 CATGATAATT GTACTATTAA	390 TTCCTTCAGT AAGGAAGTCA		410 TTACTTGTCT AATGAACAGA	420 AAGAACCAAA TTCTTGGTTT
430 GCCTCTGACT CGGAGACTGA	440 TGACTGATCA ACTGACTAGT	450 AAGTTCATCA TTCAAGTAGT			480 TTGGCAGATG AACCGTCTAC	
500 CTACATAGAT GATGTATCTA		520 GACAGGATGC CTGTCCTACG			550 AAGCAGGTGC TTCGTCCACG	
570 GATAGCATGC CTATCGTACG		590 AGTTTTTACG TCAAAAATGC			620 ACAATTTTAT TGTTAAAATA	
640 AAAGCAATTT TTTCGTTAAA	650 TATCATGGTT ATAGTACCAA			680 GAGGTAGGGA CTCCATCCCT	690 TTTCCACAGC AAAGGTGTCG	
710 TTGAAGGAAA AACTTCCTTT	720 TCTGATAAGA AGACTATTCT	730 TGATGCAAAA ACTACGTTTT		750 AATGTGTAAT TTACACATTA		
					830 GTTTTTACCA CAAAAATGGT	
					900 AAATTCAGGA TTTAAGTCCT	

Fig. 5A

920 TTATTGCTTA AATAACGAAT	930 ACGTGTGTCA TGCACACAGT	940 AATTTCTTCC TTAAAGAAGG		960 TTATTAGATC AATAATCTAG		
990 AAGCAAGACA TTCGTTCTGT	1000 GGTGCAAGTG CCACGTTCAC			1030 ACTGAGGTCT TGACTCCAGA	1040 AAAGAGATGA TTTCTCTACT	
1060 CCAAGGCTCA GGTTCCGAGT	1070 TAGCAATTTA ATCGTTAAAT	1080 TTGGTAGAGC AACCATCTCG		1100 ATTCTCTTAA TAAGAGAATT		1120 TTTTCCCTAT AAAAGGGATA
1130 TCTGAACTGT AGACTTGACA	1140 TACATCAGCA ATGTAGTCGT	1150 TCAACAATTA AGTTGTTAAT		1170 TGGAACAGTG ACCTTGTCAC	1180 TACACAGGCA ATGTGTCCGT	
1200 GTCAAGTCAC CAGTTCAGTG	1210 GATTTTTACT CTAAAAATGA	1220 TTAACTTCAA AATTGAAGTT		1240 TTGGCCTGAT AACCGGACTA	1250 TTCCCTCAAG AAGGGAGTTC	
1270 TCTTTGGCTT AGAAACCGAA	1280 TGGAAAATTT ACCTTTTAAA	1290 ATTTTTCTTG TAAAAAGAAC	1300 CATTATCTTT GTAATAGAAA	1310 CCAGCTAAAT GGTCGATTTA	1320 TTTATTTAAT AAATAAATTA	1330 AACCATCAGC TTGGTAGTCG
1340 ATGCTTTTT TACGAAAAAA	1350 TGCTTTATGC ACGAAATACG	1360 CATGTAGACT GTACATCTGA	1370 TGACCTGAAA ACTGGACTTT	1380 ACCTGCCAGG TGGACGGTCC	1390 CTTTCATTGA GAAAGTAACT	1400 GTTTAGTGAT CAAATCACTA
1410 TAAAGAAGTA ATTTCTTCAT	1420 AAGTTCTGAG TTCAAGACTC	1430 AAGCAATTAG TTCGTTAATC			1460 AAATCAATCC TTTAGTTAGG	1470 AAACTTTTGT TTTGAAAACA
1480 TGACATGTGT ACTGTACACA	1490 TTCTTTCTCC AAGAAAGAGG	1500 ATATACCAGG TATATGGTCC	1510 TTCCCGCTTC AAGGGCGAAG		1530 GATTGAAATT CTAACTTTAA	1540 GAAATAAGTC CTTTATTCAG
1550 TATTGCTGGT ATAACGACCA	1560 GGATGAATTT CCTACTTAAA	1570 GTCACTTTCC CAGTGAAAGG			1600 AAGTTAGACA TTCAATCTGT	
1620 AATACTGCCA TTATGACGGT	1630 TTGTCTGTTA AACAGACAAT	1640 AGAAGTCTAT TCTTCAGATA	1650 GACATTTCAA CTGTAAAGTT	1660 GGCAAGAATG CCGTTCTTAC	1670 AATATATGGA TTATATACCT	1680 AGAAGAAACT TCTTCTTTGA
		1710 AAAGGAAAGC TTTCCTTTCG				
		1780 AACGTTTTGC TTGCAAAACG	TGGGAGAGAA		CACATTTTCC	AGGAAGTGTG

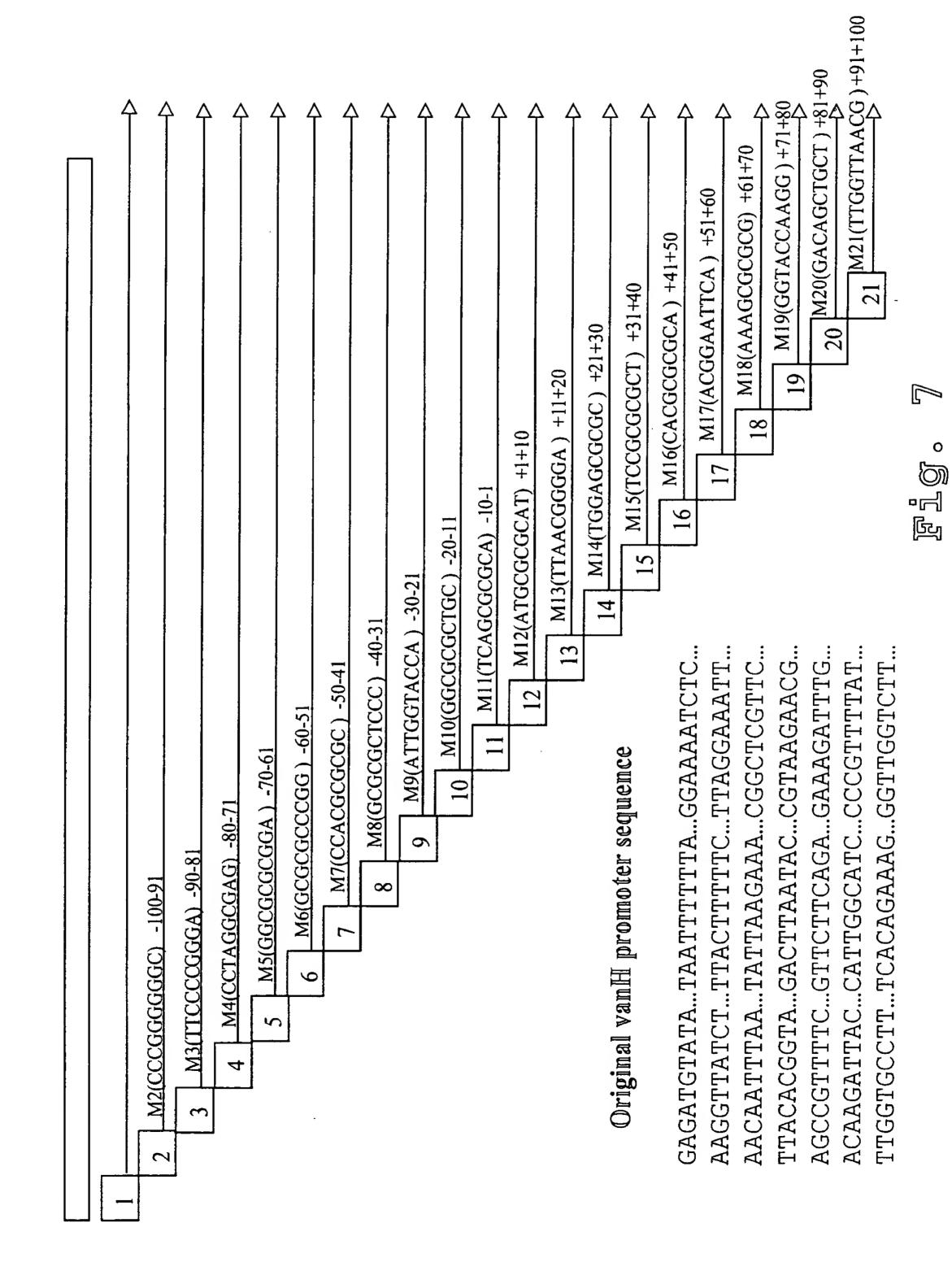
Fig. 5B

1830	1840	1850	1860	1870	1880	1890	
GGCTGCAACG	ATTGTGCGCT	CTTAACTAAT	CCTGAGTAAG	GTGGCCACTT	TGACAGTCTT	CTCATGCTGC	
CCGACGTTGC	TAACACGCGA	GAATTGATTA	GGACTCATTC	CACCGGTGAA	ACTGTCAGAA	GAGTACGACG	
						_	
1900	1910	1920	1930	1940	1950	1960	
CTCTGCCACC	TTCTCTGCCA				GATCGAAACA		
GAGACGGTGG	AAGAGACGGT			TTGTGTCGTA			
0.10.1000100	1410110110001	01101111001		11010100111	01110011101	71101100111	
1970	1980	1990	2000	2010	2020	2030	
CTTCTCCCCG		ACTGGACTGC			ATGTATTTAC		
GAAGAGGGC	TAGACGCCGG	TGACCTGACG		CTTTTAAAAA		AATGACAAAA	
011101100000	17107100000	TORCCIORCO	OUTAGICOIA	CITITATA	INCAIRANIG	AAIGACAAAA	
2040	2050	2060	2070	2080	2090	2100	
TCTTATCACC	CAGATGATTG				GAAGGCTGGA	CAAGGTAAGA	
AGAATAGTGG	GTCTACTAAC		AAAACGACAC		CTTCCGACCT	GTTCCATTCT	
AGAATAGIGG	GICIACIAAC	CCAGICGIGA	AAAACGACAC	AIAGAAGIAI	CITCCGACCI	GIICCAIICI	
2110	2120	2130	2140	2150	21.60	2170	
TGAACCACAA				2150	2160		
	GCCTTTATTA	ACTAAATTTG			GTTGGTTCTA	CCCAAATGAT	
ACTTGGTGTT	CGGAAATAAT	TGATTTAAAC	CCCAGGAATG	ATTAAGTATC	CAACCAAGAT	GGGTTTACTA	
2100	21.00	2200	2210	2222	2220	2240	
2180	2190	2200	2210	2220	2230	2240	
GGATGATGGT	AGAAACCAAA	TAGAAGAATG	GTCTTGTGGC		TTCCCTAGTC	AATGAACTCT	
CCTACTACCA	TCTTTGGTTT	ATCTTCTTAC	CAGAACACCG	TATTACAAAC	AAGGGATCAG	TTACTTGAGA	
0050							
2250	2260	2270			2300	2310	
				AGACTGCCTG			
GTATAAGAAC	AGAGACCAAT	CCTAGAACCC	TAGACCTCAG	TCTGACGGAC	CCGAGTTTAG	AACCGAGACG	
2320	2330	2340	2350		2370	2380	
				CCACATCTGA			
GGTATGGTAG	AGACAATAGG	ACCCCGTTCA	CGGAGTCAAA	GGTGTAGACT	CTTTACCCCT	ACCATCACCA	
2390							
GTCCATTTCA	TAGAT						
CAGGTAAAGT	ATCTA						

Fig. 5C

GAGATGTATATATTTTTTAGGAAAATCTCAAGGTTATCTTTACTTTTTCTTA GGAAATTAACAATTTAATATTAAGAAACGGCTCGTTCTTACACGGTAGACTTA ATACCGTAAGAACGAGCCGTTTTCGTTCTTCAGAGAAAGATTTGACAAGATTA CCATTGGCATCCCCGTTTTATTTGGTGCCTTTCACAGAAAGGGTTGGTCTTAA TT

Fig. 6



TCTAGAAAAT AATTCCCAAT ATTGAATCCC AAAGAATTCA ACATTTGGGC TGTCGTTTGA 61 AAGATAAGTT GAATTTGGTC ATGAAGGAAG AGAGGGGGGA TACAATTTCA GTAAAAGGTA 121 ACAGCAAGGT CCAAAGACAG TCAGGTCTTC AGTAGTATGG AGTATATTCA GAGGGAGCCA 181 AGATGTCTGA TGTGAACTAA AAAGATTGGT GGTTGGTAGG AGGAAGAGGT GTGAGAAGAG 241 GCTGTAAAGA AAAATTGAAA CTTGATTGTG ATGGACTTTA AAGGCTAGGC TATGGGACTT 301 GGACATGAAT CTGCAGGCCA GTGTTTGCAG ACTGGCGCCC ATAACTGTCT ATCACAGCAA 361 CACAGACATG TGTTGTTTGG CCTGCAGAGG TTTGGCCTGC ATGATGATTT TAAACCATCT 421 GAATTAGTAG CCATCATTTT CAAAAATCAA GAGATGCCAC ATTAAAATAT GGAATGCTGC 481 TGTTCTTGAA AATAATGAAA CATCTGGAAC ATTGAGGCCA CATTCCTGAC TGACAGCAAT 541 CAGTTGGAGC TGCGTAGTGA CTGCCCACTT TACATGGGGC ATCTGATCCC TAGTCGATTA 601 CAGCTGCCAC CACTTCCCTT TATCTCTCTA ATACCAAGCT CTTTTCACTC ATTTTTGTTA 661 CTTAAGAGAT ATTTGGGTTT GAAACCTCTG ATGCAGGTAA TTGAGGGTTA TAGAGCAGAG 721 GACAGATGCT ATCAGAGTTG TCTTTTAAGA AAGAACCCTC TGTTCTTCAT TTTGTTGAAG 781 ATAGCCTGGA AGAGGGCAGC CAGGGGAGAA GTTAGGGCTG GAGCTATGAG AAAGCATAAG 841 ATGAGATGAT GGCTTCAACA TTGAGGACAG AAAGAATATT GAGATGAGAA AGTAGTCCAT 901 ATAAGCATCT ATGCAAAGGA AATAGCAGAT GTCCTCAAAT CAGCAGAGGC AACAACTCTG 961 AAAGTTTATT CATAAGCCCC TCTTTTCATC TCCAATCCAG TTCAAATGTA ATTATTTAAA 1021 -TTGTTCTTCA CTCTCCTTCC TGGATCATGA ATGAGCTCCT TAAATGCAGG GTCCACAGTG 1081 TCCTATTCAT CAGTGAATTC CAAGTGCCTA GCACAGAGCC TGGCAAATAG TAAATGCTTA 1141 ACAAATATTC GTTCAGTGCA TGAATTGGAG TGATTCTCTA CTTTGCCTCA TAAGTTGAAA 1201 AAAGGTTTAT TACATACCTA AATATGCTGA AATCACAGGG CATTTGGCAA CCCCCCAAAA 1261 CCAAAACTCC CAGTTTGGAA ACAGAATTTT AATTCTGTGA AAATAAAATC CATTCATTTA 1321 TTCAAAAAT ATTTATTAAA CAATGACCAT GTCCACACCA GGCTGAGTCC TAAGGATTCA 1381 ATGATGAACA AAAACCAACA TGATTCCTGC TCTTAGGAAA CATACAGTTC AGTGAGGAAA 1441 ACAGATTGTG AGAAGTCCTC CAACAAATAC TGGGTGCTAT TAAAATATAT TAAAAGGTGA 1501 GTGGGTGAGG GACTTGAGCT AGCCTAGGTG GTTCAGGAAG TCTTCCTGGA TGTGCTGATA 1561 TGCATAGGCA TTAACTAGAT AAATAGAGAG AAGGATGAAC CAACATTGCA GGTAGAGGGA 1621 ACAGAATATG CAAAGGCAGG AAGGATTATG GAGTCGTTGG AGGACCTGAA TAAAGGCCCA 1681 GTGTAAGTGG ATCTCAGAAA ACAGGAGGAA AGGTGTATGA GATGAGATCA GAGAGGCAGA 1741 TCATGTGGGG TATGGTTAAT GTTTTGGACT TTTCTATTAA GAGCAATGGG GAGACAGTGA 1801 CAGGACTTAA ACGGGGAAAT AATATGACCA GATTAAACTT TCTAAAAAAC CCTCTATGCA 1861 AATATATT GAGAGTTAAT TATTGACAAA GATTCAAAGG CAACAAAGTG GAGAGAGAAT 1921 AGTATTTTCA AAAAATGGTG CCAAAACAAT AGGACATCTA TATTAAAAGT TGGGTATCTG 1981 TCTACAAAAC TTAATTCAAA ATGGATCACA GACCTAAATG TAAAACTGAA AGCTATACAA 2041 CTTCTGGAAG GAAAACACAG ATGGGAATCT GTGTGATCTT GAGTTTGAAA ATGATTTATT 2101 ATATCTGACA CCATAATCCG TAAGTTAACA TAATTCATAA GTGAACAAAG TGATGAACTG 2161 GACTTCATCA GAATTTAAAA TGTTTGTGCT TCAAAAGACA CTGGTATGAT AATGAAGACA 2221 AACTACAGAT AAGATATTGT TGAATCATAT TTCTGATAAA GGAATTGTGG CTCAGAATAC 2281 ATAACTCTAA ACCCCCATAA TAAATTACAA GTAGCCCAAT TAAAAAAAAA AAAAGAGAAA 2341 AAATTTACAG TCTTCATCAA AGAAAGTATC AATTGTAAAA TAAGCACATG AAAAATGCTC 2401 TGCATCTTTA TTCATGGGGG GATGAAATAA AAATTAAATG GGAAAGACAC CTCTAATTAG 2461 AATACTAAAA TTAAAAAGAC TGACCATACC AAGTATTGGT GAAGTGGAAA TGTAAAATGA 2521 TACAATCAAC TTAGGTAGAT GATTTGGAAG TTTCTTACAA AAGTAGGTGT ATACCTACCC 2581 TGTGACTCAC CCATTCCATG GCTAAGTATT TACCTGAGAG AAATGAAAGA ATACATCCAT 2641 ACAAAGATGT TTATACAAAT ATTTATAGCA GTTTTATTTG TAGTAGCCCC AAACTGAAAA 2701 GAACCCAAAT GTCCATCAAA AGTGAATGGA TAAACAAAGC GTGGTACAGC AATGCAATAG 2761 AATACTACTT AGCAATAAAG AAGAATGAGC TAGTGATATA CATAACAGCT TAAATGTACA 2821 TCAAAGGCAT TGTGCTCAGT GAAAGATGCA AGTAAAAAA AAAAAGAGTA CATGCTGTAT 2881 AGTTCCATTG ACATAAAACT CTGGAAAGTG AAAAACAGTC TATACTGACA GAAAGCAGAT 2941 CATTGGTTGC CTGAGGAGGA GGAGTATAGG AGAGGTGGAG GGAAAATGTA CAAAGTGGCA 3001 CAATAAAAAC TTTTGGAATC ATAGATATAT TCACTATCTT GATTGAGTGA TGATTTCATG 3061

Fig. 8A

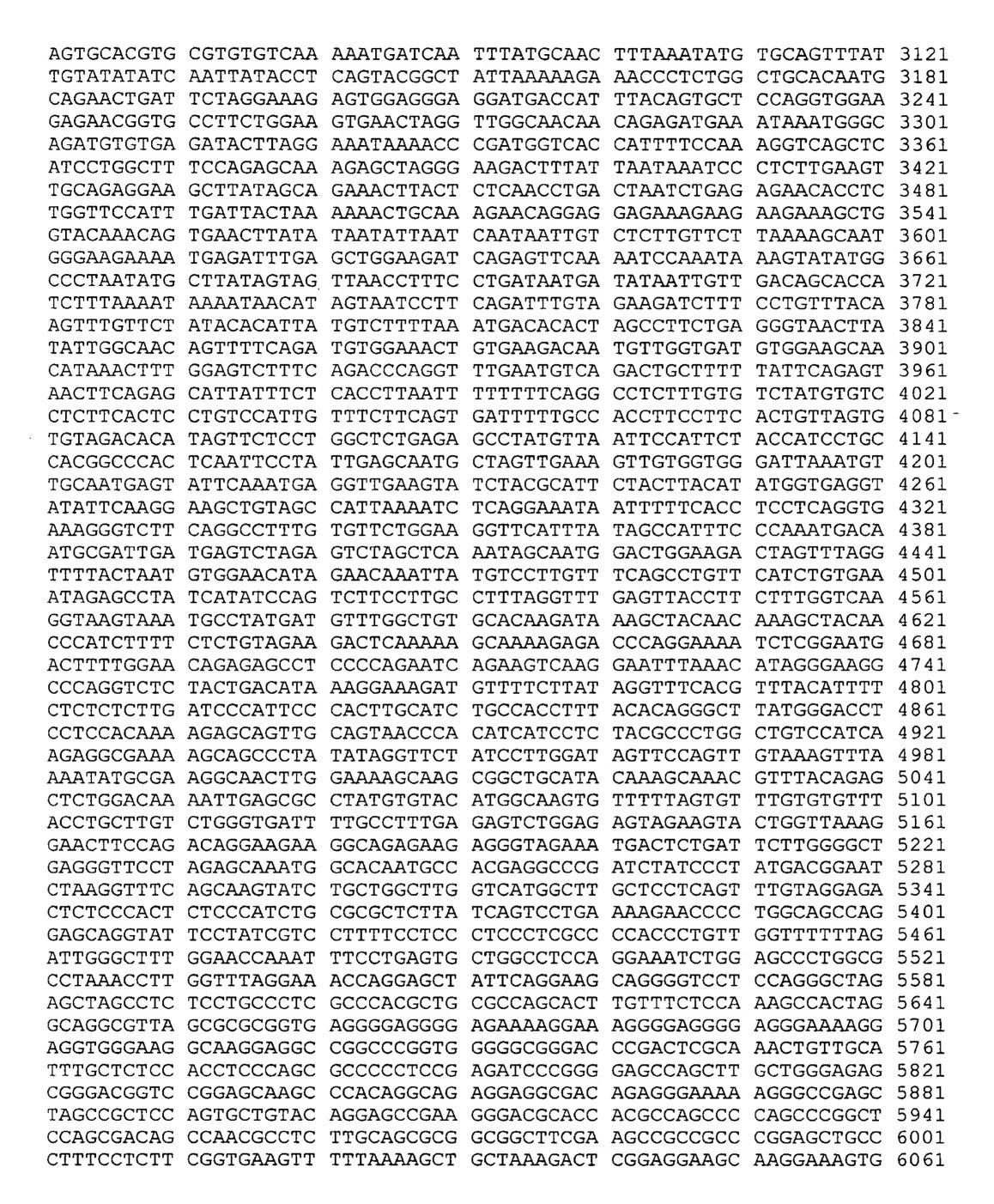


Fig. 8B

GGATG

```
CCTGGTAGGA CTGACGGCTG CCTTTGTCCT CCTCCTCTCC ACCCCGCCTC CCCCACCCT 6121
GCCTTCCCCC CCTCCCCGT CTTCTCTCCC GCAGCTGCCT CAGTCGGCTA CTCTCAGCCA 6181
ACCCCCCTCA CCACCCTTCT CCCCACCCGC CCCCCGCCC CCGTCGCCCA GCGCTGCCAG 6241
CCCGAGTTTG CAGAGAGGTA ACTCCCTTTG GCTGCGAGCG GGCGAGCTAG CTGCACATTG 6301
CAAAGAAGGC TCTTAGGAGC CAGGCGACTG GGGAGCGGCT TCAGCACTGC AGCCACGACC 6361
CGCCTGGTTA GGCTGCACGC GGAGAGAACC CTCTGTTTTC CCCCACCTC TCTCCACCTC 6421
CTCCTGCCTT CCCCACCCCG AGTGCGGAGC CAGAGATCAA AAGATGAAAA GGCAGTCAGG 6481
TCTTCAGTAG CCAAAAAACA AAACAAACAA AAACAAAAAA CAAGAAATAA AAGAAAAAAGA 6541
TAATAACTCA GTTCTTATTT GCACCTACTT CAGTGGACAC TGAATTTGGA AGGTGGAGGA 6601
TTTTGTTTTT TTCTTTTAAG ATCTGGGCAT CTTTTGAATC TACCCTTCAA GTATTAAGAG 6661
ACAGACTGTG AGCCTAGCAG GGCAGATCTT GTCCACCGTG TGTCTTCTTC TGCACGAGAC 6721
TTTGAGGCTG TCAGAGCGCT TTTTGCGTGG TTGCTCCCGC AAGTTTCCTT CTCTGGAGCT 6781
TCCCGCAGGT GGGCAGCTAG CTGCAGCGAC TACCGCATCA TCACAGCCTG TTGAACTCTT 6841
CTGAGCAAGA GAAGGGGAGG CGGGGTAAGG GAAGTAGGTG GAAGATTCAG CCAAGCTCAA 6901
```

Fig. 8C

	CA	GGCCCCACAA	AACCTAGATC	TGCCCCAGTA	TAACTAAATC	1501
TGGGACCATT	TATTGAGCAA	TTATTATGTG	CCAAGTATTG	CGCTGAGTGC	TTCCAGAGCA	1561
TTATCTCCTT	TAACCCCAGC	ATAGTATGTC	AGATGCTGTT	TTACAGATGA	GCCAACTGAG	1621
ACCAGAGATG	CTCAGTCACT	TGCCCAAGGT	GACATGACTG	ATATGGAATA	GAGTCAAGAT	1681
TTTTTTTTTT	TTTTTTGACA	CGGAGTCTCA	CTCTGTCTCC	CAGGCTGGAG	TGCAGAGGCG	1741
CAATCTCAGC	TCACTGCAAG	CTCTGCCTCC	CAGGTTCACG	CATTCTCCTG	CCTCAGCCTC	1801
CTGAGTAGCT	GGGACTACAG	GCACCCGCCA	CCACACCTGG	CTAATTTTTT	GTATTTTTAG	1861
CAGAGACAGG	GTTTCACCGT	GTTAGCCAGG	ATGGTCTCGA	TCTCCTGACC	TCGTGATCTG	1921
CCTGCCTCGG	CCTCCCAAAG	TGATGGAATT	ACAGGTGTGA	GCCACCGCGA	CTGGCCAGAT	1981
TCAAGATTTG	AACCCAGGTC	CTCTTGGTCC	CAGAGGCCCC	TGTTTCTCAA	CTCCCTAGCA	2041
TGCATACGCA	CCTGTCCCTC	TAGAGGTGCC	TGCTTAAGTG	TGCTCAGCAC	ATGGAAGCAA	2101
GTTAGAAATG	CTAGGTATAC	CTGTAAAGAG	GTGTGGGAGA	TGGGGGGGAG	GGAAGAGAGA	2161
AAGAGATGCT	GGTGTCCTTC	ATTCTCCAGT	CCCTGATAGG	TGCCTTTGAT	CCCTTCTTGA	2221
CCAGTATAGC	TGCATTCTTG	GCTGGGGCAT	TCCAACTAGA	ACTGCCAAAT	TTAGCACATA	2281
AAAATAAGGA	GGCCCAGTTA	AATTTGAATT	TCAGATAAAC	AATGAATAAT	TTGTTAGTAT	2341
AAATATGTCC	CATGCAATAT	CTTGTTGAAA	TTAAAAAAAA	AAAAAAAAGT	CTTCCTTCCA	2401
TCCCCACCCC	TACCACTAGG	CCTAAGGAAT	AGGGTCAGGG	GCTCCAAATA	GAATGTGGTT	2461
GAGAAGTGGA	ATTAAGCAGG	CTAATAGAAG	GCAAGGGGCA	AAGAAGAAAC	CTTGAATGCA	2521
TTGGGTGCTG	GGTGCCTCCT	TAAATAAGCA	AGAAGGGTGC	ATTTTGAAGA	ATTGAGATAG	2581
AAGTCTTTTT	GGGCTGGGTG	CAGTTGCTCG	TGGTTGTAAT	TCCAGCACTT	TGGGAGGCTG	2641
AGGCGGGAGG	ATCACCTGAG	CTTGGGAGTT	CAAGACCAGC	CTCACCAACG	TGGAGAAACC	2701
CTGTCTTTAC	TAAAAATACA	AAAAATTCAG	CTGGTCATGG	TGGCACATGC	CTGTAATCCC	2761
AGCTGCTCGG	GAGGCTGAGG	CAGGAGAATC	ACTTGAACCA	GGGAGGCAGA	GGTTGTGGTG	2821
AGCAGAGATC	GCGCCATTGC	TCTCCAGCCT	GGGCAACAAG	AGCAAAAGTT	CGTTTAAAAA	2881
AAAAAAAAAG	TCCTTTCGAT	GTGACTGTCT	CCTCCCAAAT	TTGTAGACCC	TCTTAAGATC	2941
ATGCTTTTCA	GATACTTCAA	AGATTCCAGA	AGATATGCCC	CGGGGGTCCT	GGAAGCCACA	3001
	AACACATCCC					
AACCATTATT	TGATATTAAA	ACAATAGGCT	TGGGATGGAG	TAGGATGCAA		3121
	ACTGAGACTT					3181
	GAGGGGCAG					3241
	GCTGCAGGCA					3301
CGCGAAGAGA					GTTGGAATGC	
AGTTGGAGGG				ACCGGAGAAG		3421
					TTCCCCTCCA	
					CCACGGGGCC	
			CCTCGCAGCA	CCCCGCGCCC	CGCGCCCTCC	3601
CAGCCGGGTC	CAGCCGGAGC	CATGG				

Fig. 9